

42390P14932

PATENT

REMARKS

Claims 1-41 are pending in the application. Claims 1, 9, 15, 21, 27, and 35 are independent claims.

Claims 1-8, 15-17, 21-24, and 27-34 have been rejected under 35 U.S.C. §102(e) as being anticipated by U.S. Patent No. 7,177,421 ("Buer"). Claims 9-13 and 35-41 have been rejected under 35 U.S.C. §103(a) as being unpatentable over Buer in view of M.J.B. Robshaw, "On Recent Result for MD2, MD4, and MD5" ("Robshaw"). Claims 18-20, 25, and 26 have been rejected under 35 U.S.C. §103(a) as being unpatentable over Buer in view of U.S. Patent No. 5,365,588 ("Bianco"). Claim 14 has been rejected under 35 U.S.C. §103(a) as being unpatentable over Buer in view of Robshaw and Bianco.

In response, it is argued that each of claims 1-41 include at least one limitation not disclosed by Buer, Robshaw, or Bianco.

For example, independent claim 1 requires a plurality of pipeline stages to perform an inner loop of a hash algorithm, the plurality of pipeline stages comprising at least as many pipeline stages as there are iterations of the inner loop to be performed. The examiner argues that Buer discloses this limitation. However, Buer does not disclose this limitation. Buer describes pipeline control logic that "ensures that the outer hash operation for one data payload is performed in parallel with the inner hash operation of the next data payload" (column 6, lines 25-29). In other words, Buer describes pipelining an iteration of the outer loop with an iteration of the inner loop, not pipelining iterations of the inner loop.

Each of the other independent claims of the present application includes an analogous limitation that, based on the above argument, is not disclosed by Buer, Robshaw, or Bianco. Furthermore, each of the dependent claims of the present application includes at least one limitation not disclosed by Buer, Robshaw, or Bianco, based on their dependence on an independent claim including a limitation not disclosed by Buer, Robshaw, or Bianco. Therefore, the rejections of claims 1-41 based on Buer or any combination of Buer with Robshaw and Bianco is improper.

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CONCLUSION

Based on the foregoing, it is respectfully submitted that the rejections of claims 1-41 have been overcome, and that claims 1-41 are in condition for allowance. The applicant therefore respectfully requests the issuance of a Notice of Allowance. Please charge any necessary fees, including extension fees, to our Deposit Account No. 50-0221.

Respectfully submitted,

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Thomas R. Lane
Registration No. 42,781